

DEPARTMENT OF NATURAL RESOURCES

POSITION DESCRIPTION

Working Title: Stormwater Engineer
Classification Title: Water Resources Engineer-Senior
Work Location: Runoff Management Section – Central Office

Position Summary: Under general supervision of the Runoff Management Section Chief, this position provides statewide technical engineering assistance and policy guidance to Department of Natural Resources (DNR) central office and regional staff, municipal officials and consulting firms in the areas of urban storm water management and construction site erosion control. The position collaborates with DNR storm water staff, other DNR programs and state agencies, the University of Wisconsin, and the public to help develop policies, procedures, and revisions to the storm water management program, facilitate the issuance of permits and respond to inquiries about the program.

This position is responsible for the implementation of the municipal (MS4), construction, and industrial storm water programs in accordance with the Clean Water Act, ch. 283, Wis. Stats., and chs. NR 151 and 216, Wisconsin Administrative Codes. The position is responsible for technical engineering review and engineering support for the construction, municipal, and industrial stormwater permit program, as well as assistance with engineering review of grant applications related to the urban planning and construction nonpoint grant program. The position may assist with the implementation of TMDLs using alternative compliance tools.

Scope of Authority: This position is supervised by the Runoff Management Supervisor, Central Office, in the External Services Division, Watershed Management Program. This position is non-supervisory.

Location, Geographic Scope, and Travel Requirements of Position: This position will be in Central Office – Madison and will have responsibilities throughout the state. This position will require occasional statewide travel and overnight stays for meetings, trainings, or to provide program implementation support, and may require minimal out-of-state travel. Telework may be available.

Time %	Goal and Worker Activities
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| 40% | <p>A. PROVIDE TECHNICAL ENGINEERING EXPERTISE FOR THE URBAN STORM WATER MANAGEMENT AND CONSTRUCTION SITE EROSION CONTROL PROGRAMS.</p> <p>A.1. Respond to the technical questions about best management practices for urban storm water management and construction site erosion control from DNR regional and central office staff, municipal officials and consulting engineering firms.</p> <p>A.2. Provide technical support to internal and external users, for the models used to predict pollutant loadings to water bodies from urban sources</p> |
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and the hydraulic and hydrologic models used for design of practices.

- A.3. Prepare technical papers and conduct informational and training presentations to describe urban storm water and construction site erosion control problems and best management practices in Wisconsin to state, regional and national audiences.
- A.4. Provide assistance and back-up for the liaison to the Office of Energy, by reviewing plans and issuing coverage under the WPDES construction site general permit for Office of Energy projects when needed.

40%

B. PARTICIPATE IN ESTABLISHING STATEWIDE POLICIES AND TECHNICAL STANDARDS FOR URBAN STORM WATER MANAGEMENT AND CONSTRUCTION SITE EROSION CONTROL.

- B.1. Lead or serve on technical standard development teams through the state and federal interagency Standards Oversight Council. Lead or serve on other external or internal work groups as necessary to identify and develop state policies and technical standards for urban storm water management and construction site erosion control.
- B.2. Provide assistance in the drafting of administrative rules necessary to implement the urban storm water management and construction site erosion control requirements in state law. This includes drafting administrative code language, writing necessary environmental impact statements and assessments and developing fiscal notes.
- B.3. Provide engineering expertise in the development of policies, technical standards and administrative rules required to comply with federal storm water discharge and construction site erosion control regulations.
- B.4. Serve on the internal storm water engineering team to provide technical expertise and act as a fully participating team member.

15%

C. SUPPORT OTHER RUNOFF PROGRAMS AND WATER DIVISION PROGRAMS AS NEEDED

- C.1. Provide engineering reviews and approvals for projects submitted under the grant or loan programs administered by the department, following guidelines developed by the funding program.
- C.2. Provide technical support to the agency representative on issues associated with additive use for storm water applications.
- C.3. Assist with identifying issues with implementation of the storm water program for TMDLs and programs associated with implementation of TMDLs such as Adaptive Management and Water Quality Trading.
- C.4. Provide support for database management and GIS applications including hiring and managing contractors and acting as a liaison to the agency GIS program where applicable

5%

D. OTHER DUTIES

- D.1. Review and keep abreast of changes in knowledge and practices of position-related activities in responsibilities.
- D.2. Follow all general and position-related safety requirements.
- D.3. Perform other position-related duties as assigned.

Special Requirements

- Must be eligible to register as a Professional Engineer, possess a degree from a recognized college or university with a degree in a related engineering field, or meet other eligibility requirements determined by DSPS.
- Must meet the requirements to operate a state vehicle, including the ability to obtain and maintain a valid WI driver's license.

Knowledge Skills and Abilities

1. Knowledge of urban best management and construction site erosion control practices and their application to achieve pollutant reduction goals.
2. Knowledge of engineering principles related to the design of structural and non-structural urban best management and construction site erosion control practices.
3. Skill in the use of personal computers with an emphasis on use of the Microsoft Office Suite (i.e., MS-Word, MS-Excel, MS-Project, MS-PowerPoint).
4. Knowledge of Federal Clean Water Act requirements for storm water sources of pollution.
5. Knowledge of State and federal laws and Wisconsin Administrative Rules (Chapters NR 102, 104, 105, 106, 120, 152, 153, 154, 216, 243 and 207) pertaining to surface water quality standards.
6. Skill in the use of Arc Info, Arc View and other GIS computer technology.
7. Ability to work effectively in teams of various sizes.
8. Knowledge of Wisconsin Pollution Discharge Elimination System program for the management of stormwater from point sources.
9. Knowledge of the DNR's urban grant management program, including knowledge of nonpoint source program objectives and procedures.
10. Knowledge of Wisconsin's urban and construction site stormwater management program as it relates to the development of TMDLs.
11. Skill in data entry, retrieval, and management using databases.
12. Knowledge of wetlands, including hydrology and plants.
13. Knowledge of runoff management models (e.g., WinSLAMM, P8) and hydraulic and hydrologic models (e.g., Hydrocad).
14. Skill in oral and written communication.

Physical Requirements and Environmental Factors:

Strength requirements: Regular physical work for conducting site inspections and compliance determination, including walking in various terrain, carrying field equipment, and digging soil pits. Occasional sedentary office work (exerting up to 10 pounds of force occasionally and/or a negligible amount of force frequently).

Physically: This position will spend approximately 75% of time indoors in an office setting.

Environmental Factors: This position will on occasion spend more than one hour outdoors in varying weather conditions.

Equipment Used: Office equipment including telephone, computer hardware and software.
Field equipment for site reviews, including digital camera, GPS unit, soil boring instruments and shovels.

Telework Evaluation: Telework may be available for this position upon successful completion of the probationary period.